

4. Device according to any of the Claims 2 to 3,
characterised in that an optical pumped light source and/or an element selective by wavelength is provided on at least one end of said fibre optical waveguide, which element filters the pumped light from the optical signals.
5. Application of the device according to the Claims 1 to 4 for optical signal transmission between two parts mobile relative to each other such that the optical signals emitted by an emitter unit are coupled into said light-guiding object.
6. Application according to Claim 5,
characterised in that said light-guiding object is disposed on a stationary element and said optical emitter means, which emits said optical signals, is arranged on a rotating element such that during one full turn of said rotating element the emitted optical signals may permanently be coupled into said light-guiding object.
7. Application of the device according to the Claims 1 to 4 as position-sensitive detector for light radiation by evaluation of signal transit times and/or signal amplitudes.
8. Application of the device according to the Claims 1 to 4 as orientation-sensitive detector for light radiation by evaluation of signal transit times and/or signal amplitudes.

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